Post Tier 2 SCR Evaluation Worksheet

is

Site Name	LUST #				
Location	Registration #				
	TimeLocation				
Submittal Date of Worksheet to All Confe	rence Participants				
all parties at least 10 days prior to the planned a checklist only; the Groundwater Professional evaluating the best options to address the apples anticipated that a complete review will take conditions, detail and justify a recommended. The goal of this Worksheet is to provide a fixed from the provided of the technology to the site clear applicability of the technology to the site clear and the provided of the technology to the site clear and the provided of the technology to the site clear and the provided of the technology to the site clear and the provided of the technology to the site clear and the provided of the technology to the site clear and the provided of the technology to the site clear and the provided of the planned	relevant data necessary to make an informed decision. nology, include site information that relates to the anup. igate and supply information to demonstrate that this ermission could be granted to proceed to a Tier 3				
GWP	Phone				
	Phone				
	Mtg Participant? Y/N Phone				
	Mtg Participant? Y/N Phone				
	Mtg Participant? Y/N Phone				
Other Parties to Include in Conference and Te	elephone Numbers (City? Lessee? Renter?):				
	her, None)				
	Has it been discussed with RP?				
Funding status:					

PART 2: GENERAL DATA

Tier 2 Deficiencies: Be prepared to discuss how Tier 2 SCR, SMR, and/or CADR deficiencies will be addressed. Generally, minor deficiencies will be dealt with in the next reporting event.

Post Tier 2 SCR Evaluation Worksheet for [Site Name] [Date]
Page 2 of 5

Active USTs? (Y / N):Removed USTs? (Y / N): Date / # Removed:				
Closed In Place USTs:	Date / #Closed In place:				
Active ASTs:	Removed ASTs:				
Current Use of Site:					
Financial Responsibility Mechanism for active U	JST system:				
Geology/Hydrogeology					
K min. at MW-?	K max. at MW-?				
Bedrock site (Y/N)	Type:				
Depth(s) to bedrock:					
Range of soil contamination (depth - based on fie	eld screening readings):				
Depth to water at soil source:	(range based on all data)				
Depth to water at GW source:	(range based on all data)				
Depth to water across plumes:	(range based on all data)				
Groundwater flow direction and variations:					
Stratigraphy (describe):					
	acts to receptors such as contaminants in drinking rs in basements, or sheen on surface waters? If yes,				
identify the receptor and its current status and ris Drinking Water Wells:					
Plastic Water Lines:					
Vapor Receptors:					
Surface Water:					
Has over-excavation or other remediation/correct	tive action been implemented at the site? Describe.				
This over-excavation of other remediation/correc					

Contaminant Concentrations and High Risk Receptors/Pathways

Free Prod	uct:								
Free Product present now? (Y/N):			N):	Date of most recent FP report:					
Which well	ls had FP i	n the last	year						
Recent pro-	duct thickr	ess (ft):							
What kind	of FP reco	very is or	was conduc	ted?					
		•						proved Tier 2.	
	GROUND			SOIL					
Chemical	Location (MW)	Date	Conc. (ug/L)	Location (BH, MW)	Date	Conc. (mg/kg)	Depth	Soil source re-sampled?	
В									
T									
Е									
X									
TEH-d									
TEH-wo									
_	iere are m	ultiple hi	gh risk rece			ne latest app ne pathway,		Tier 2 or approved number of	
HR Pathw	ay HR I	Receptor	Chemical	Lowest SSTL		Proposed Corrective Action			
GW-PWL		PWL-1	В	421 ug/l		PWL replacement			
at Dawa		DCWC T		122 000 7		I " " IC / IC' O !			

HR Pathway	HR Receptor	Chemical	Lowest SSTL	Proposed Corrective Action
GW-PWL	PWL-1	В	421 ug/l	PWL replacement
SL-PGWS	PGWS	TEHd	123,000 ug/l	Institutional Control-City Ordinance

Complete the table below regarding each drinking / non-drinking water well identified as a receptor:

Well Use: PV = Private, M = Municipal, P = Public, non-municipal								
Well # (Tier 2)	Dww1							
Use (PV, M, P)	P							
Actual Plume	N							
Simulated Plume	Y							

If new data has been collected since the submission of the Tier 2, SMR, or CADR (i.e., current contaminant data, receptor surveys, boring logs), provide the data as an attachment to the checklist.

PART 3. OPTIONS EVALUATION

The questions/options listed are not intended to be a comprehensive list, but are provided as a starting point for the evaluation. Your knowledge and experience as a GWP are essential in the evaluation and to the overall process.

The following questions/options should be considered for each pathway/receptor identified as high risk. Indicate if the option listed is feasible; if so, include projected costs, method for estimating costs, and source of information. If not feasible, explain why. Provide your evaluation as an attachment with the appropriate section headings.

Se	ction I. Water Wells (Drinking and Non-Drinking Water Wells)	
	Tier 3 an option? (pumping test, stratigraphy, non-expanding plume)	
	Is the water well currently used?	
	Can the well be re-cased?	
	Can the water well be plugged?	
	Is public water available?	
	Is an alternate water source available?	
	Has the owner of well been contacted regarding risk or replacement?	
	Technological control possible? (i.e., point of use treatment)	
	Possible to relocate a water well outside of actual or simulated plume?	
	Have source control been used to remove soil/gw sources?	
	Other alternatives?	
	Active remediation options?	
Se	ction 2. Protected Groundwater Source	
	Is public water available?	
	Does an institutional control (IC) exist regarding well placement?	
	Can an IC be obtained?	
	Identify any known prior attempts to secure an IC.	
	Has the soil source/maximum been re-sampled?	
	Is Tier 3 an option? (i.e., aquifer characterization, pumping test)	
	Has source control been used to remove soil/gw sources?	
	Active remediation options?	
	Other alternatives?	
Se	ction 3. Plastic Water Lines (PWL)	
	Can a 3 ft. separation be documented between water levels & PWL?	
	Could the PWL be relocated outside the plume?	
	Length of PWL in actual plume.	
	Length of PWL in actual plume. + 50 ft	
	Total length of PWL in actual & simulated plumes.	
	Is replacement with metal pipe possible?	
	Has the owner of PWL been contacted regarding risk or replacement?	
	Is Tier 3 an option? (i.e., plume stability or other)	
	Source control been used to remove soil / gw sources?	
	Active remediation options?	
	Other alternatives?	

Page 5 of 5 Section 4. Vapor Receptors □ Has soil gas been conducted at the soil source? ☐ Has soil gas been conducted at the groundwater source? □ Has SG been conducted at alternate points of compliance? Can the receptor be moved or eliminated? □ Is it possible to prove receptor submergence? □ Is a zoning change possible? Verify current zoning. □ Can the property be purchased? □ Has the owner been contacted regarding risk or replacement? □ Is venting possible at the point of exposure? □ Is the soil plume submerged? □ Has the soil source been re-sampled? ☐ Is Tier 3 an option? (non-expanding plume, etc.) □ Active remediation options? □ Other alternatives? **Section 5.** Surface Water Receptors ☐ Is Tier 3 an option? (i.e., non-expanding plume) □ Active remediation options? □ Other alternatives? **Section 6. Recommended Approach** Choose an approach and at least one alternative, explain them, and provide justification for your selections. If selection of alternatives depends upon collection of additional data or other issues, describe the alternative approaches and discuss technologies in detail. Provide a cost estimate for the chosen approach and for at least one alternative. These cost estimates must be sufficiently detailed and formatted such that the alternative technologies can be compared. If an active remediation system is recommended, estimate time required to reach SSTLs. **CERTIFICATION:** I, _____, Iowa Certified Groundwater Professional No. _____, certify that the above information is true based on my knowledge of the site and the most recent RBCA evaluation completed and accepted by the Department for the referenced site:

(date)

Post Tier 2 SCR Evaluation Worksheet for [Site Name]

[Date]

(signature)